

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 039 399 A1

(12)

## EUROPEAN PATENT APPLICATION

(43) Date of publication:

27.09.2000 Bulletin 2000/39

(51) Int. Cl. 7: G06F 17/30

(21) Application number: 99126217.1

(22) Date of filing: 30.12.1999

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 22.03.1999 US 273699

(71) Applicant:

SHARP KABUSHIKI KAISHA  
Osaka 545-8622 (JP)

(72) Inventor: Kuki, Hikaru

Vancouver, Washington 90683 (US)

(74) Representative:

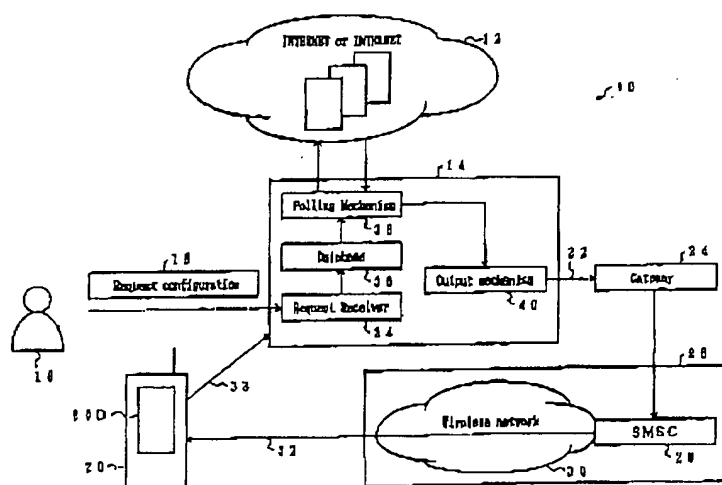
MÜLLER & HOFFMANN Patentanwälte  
Innere Wiener Strasse 17  
81667 München (DE)

## (54) System for extracting and relaying web page information and method

(57) A system for extracting and relaying web page information having a connection to a communications network includes a polling mechanism for polling the communications network to find changes in the area-of-interest; and an output mechanism for transmitting changed information to the user. A method of extracting and relaying web page information to a user as the web

page information changes includes identifying an area-of-interest on a web page; polling the web page; determining if information in the area-of-interest has changed according to a predetermined criteria; and transmitting changed information only to a user when the information changes.

FIG. 1



Best Available Copy

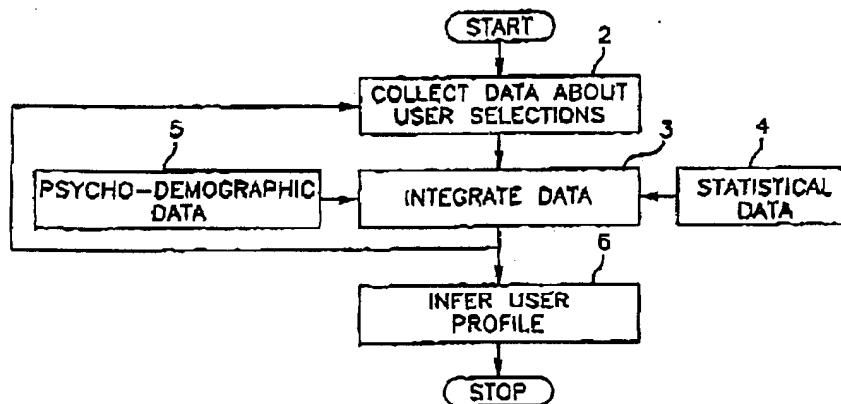
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification: G06F 17/60	A1	(11) International Publication Number: WO 00/33224
		(43) International Publication Date: 8 June 2000 (08.06.00)
(21) International Application Number: PCT/US99/28335 (22) International Filing Date: 30 November 1999 (30.11.99) (30) Priority Data: 60/110,301 30 November 1998 (30.11.98) US (71) Applicant (for all designated States except US): INDEX SYSTEMS, INC. [-/-]; P.O. Box 71, Craigmuir Chambers, Road Town, Tortola (VG). (72) Inventor, and (73) Inventor/Applicant (for US only): YUEN, Henry, C. [US/US]; 135 N. Los Robles Avenue, Suite 870, Pasadena, CA 91101 (US). (74) Agent: TABANDEH, Raymond, R.; Christie, Parker & Hale, LLP, P.O. Box 7068, Pasadena, CA 91109-7068 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, HU, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: SMART AGENT BASED ON HABIT, STATISTICAL INFERENCE AND PSYCHO-DEMOGRAPHIC PROFILING



## (57) Abstract

A smart agent (SA) is provided which resides locally in a local client device and by iterative means integrates the habit, statistics and psycho-demographic information of a user to infer the user's preferences. The SA may also utilize the preferences to filter information delivered to the local device. The invention further discloses a means of collecting, combining, integrating and inferring information from the user to arrive at a psycho-demographic profile of the user, and a means of utilizing such psycho-demographic profile to select or filter information delivered to the user, thereby achieving targeting. The invention also discloses a means of classifying and identifying the information delivered so that it can be matched, filtered or selected.

Best Available Copy